From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Mike Connor <mikec@primenet.com>
Subject: [6544] 2n3053 info-Thanks!
Message-ID: <01BB2076.F5E3D700@mikec.primenet.com>

 Gang,
 Many thanks to all who responded to my request for info on the 2N3053.
Once again I'm reminded of the priceless resource the Qrp-L is.:-)
 Mike
 NQ7K

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: mizrahi@svlhp8.scs.philips.com
Subject: [6553] 40-9er alignment and output power
Message-ID: <9604021803.AA05565@svln20.scs.philips.com>

The instructions with the kit tell you to peak C2 for max signal on
receive. I found that there is quite a wide range that the reception
is satisfactory.
I also found that C2 has a major impact on the output stage loading,
when R1 is at max resistance (where I suspect most people will leave
it). It also tunes very sharply in this regard.
The alignment procedure should include output power peaking, not
only receive signal peaking IMHO.
If you wonder why nobody hears you, check this first!!!

73 DE ORI AC6AN

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: burdick@interval.com (Wayne Burdick)
Subject: [6549] 40-9er correction: receiver input tuned circuit
Message-ID: <199604021724.JAA08967@interval.interval.com>

If you think your 40-9er's receiver is too weak, it may be that C20 is too
small. (I considered changing it from 150 to 180 pF but missed the
publication deadline.)   Rob Capon sent me the message below, confirming
that on some 40-9er's, an extra cap paralleled across C20 may get the tuned
circuit into the proper range. Which brings up the following question:

Q: Why does the 40-9er need so much capacitance in that tuned circuit,
when the NorCal 40 and some other designs use the trimmer by itself, with a
much larger inductor?

A: The reason is that the 40-9er is direct conversion, making it much more likely that hum and A.M. broadcast stations picked up at pin 1 of the NE602 will make it to the AF amp. By using a much larger capacitance here, the Q of the circuit is improved, and the NE602 "hears" less interference. I haven't quantified the effect, but I noticed that with the usual small amount of capacitance, things get much worse. The tradeoff is that with C2 being a smaller part of the total capacitance, the value of C20 becomes more critical.

Another way to acheive the same thing is to tap down on the inductor on the '602 side--but hey, that requires a toroid ;) and the 40-9er was supposed to be torroid-less.

73,
Wayne
N6KR

* * *

>Wayne:
>
>C20 was the culprit. I tacked on a 30 pf capacitor, and the receiver came to
>life with a sharp peak in C2. A 20 pf also worked. When I replaced C20 with
>a 220 pf, I overshot the value, and did not get a good peak. So I'd stick
>with 20-30 pf across C20 of 150 pf.
>
>You might get a note out instructing people to play with C20 if the receiver
>seems muted and C2 comes to a squishy peak.
>
>73,
>
>Rob

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [6561] 49er
Message-ID: <6207C86251@iunhaw1.iun.indiana.edu>

I take my title and "spelling" from the board.

Question: Where is jumper #4? Perhaps I am blind but Doug talks
about installing the four jumpers on the board and I only see three.

I did not see J3 in between C19 and C15 right away but then I got it.
Sorry---I do not see J4.

Thanks much.

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [6562] 49er
Message-ID: <62320A723C@iunhaw1.iun.indiana.edu>

All right--I found the jumper on the handout from Doug. It is on
revision B of the board but I have board A that does not include this
little gem. Should I get a new board??

Thanks again.

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Doug Hendricks <ki6ds@telis.org>
Subject: [6557] 49er Rev. B board
Message-ID: <31617833.37EF@telis.org>

Guys, if you have the Rev. B 49er board and have it built and working
please email me direct. The Rev. B board has the blue silkscreen on it.
 If you could tell me what your power out on 9 and 12 volts, I would

also apprecitate it. 72, Doug

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Dave Fifield <fifield@lan.nsc.com>
Subject: [6571] Altoids
Message-ID: <3161BE0F.5BAA@lan.nsc.com>

...I've found the cheapest place for them is Price/Costco, but you have to buy about a dozen tins at a time (a rig for each band?).

Altoids claim to be British. So do I. Plenty of people have seem me in England since 1957, but I have NEVER seen Altoids there. The first time I ever saw them (or even heard of them) was in the US when I moved here in 1992.

Are we "marketing victims"? (rhetorical)

Dave KE6ZBZ   QRP-L #92

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: bkassel@enet.net (Brian Kassel)
Subject: [6550] AZ QRP APRIL Mtg Notice
Message-ID: <199604021737.KAA06869@maple.enet.net>

Hi All!

  For all of you who are in, or will be in the Phoenix AZ area this Saturday:

  Floyd, NQ7X and I have presumed the responsibility of declaring that the monthly meeting of the ScQRPions will be held this coming Saturday (4-6-96) in the parking lot of Devry Institute located at 2149 Dunlap Ave at the usual time of 10:30 A.M. Floyd is going down today to see if we can get a room inside of the Institute. Also the new location of Ham Radio Outlet (1939 Dunlap) as well as Tri-Tek Electronics is very near that location.

If we can't get a room, we can just mosey over to Luby's Cafeteria which is also located near Devry.

We think that this location will better serve our members and friends from the east valley, without making us west valley folks

to drive to Tucson!

We both hope that this plan is equitable to all. We just had to come
up with something before it was too late to get the word out.
BTW, if you know of someone who wants to attend, but is not on the
E-MAIL list that I have used, please let them know.

Thanks
Brian W5VBO

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: JCoote@aol.com
Subject: [6577] Baluns For Tuners..?
Message-ID: <960402191430_504184114@emout07.mail.aol.com>

There seems to be some discrepancy when it comes to balun design, especially
baluns for antenna tuners.

John Belrose (VE2CV) in QST June 91 does not always seem to be in agreement
with Jerry Sevick (W2FMI) in CQ, June 93 and February 94.

The most recent design is the "current balun" but some balun enthusiasts
believe this is a variation on a Guanella balun. The current balun may
consist of coax wound on a core, beads slipped over coax or parallel
conductors on a core.. depending who you're reading.

Some writers feel that the 4:1 "voltage" Ruthroff balun is the best choice
for antenna tuners, while others say tests prove this design is not all that
good for balancing RF currents. The Ruthroff 4:1 balun is what is seen in
most commercial tuners.

Some writers and tuner manufacturers just throw any old ferrite (!!??) or
powdered-iron core in their projects without providing information or test
data on permeability, loss, bandwidth, heating or saturation. Some
commercial tuners and published ham projects repeat a balun from a very early
tuner project which is barely a balun at all below 7 MHz.
I once blew up an unknown core in a "300 Watt" SST brand tuner with just 75
watts on 160 meters.

My own little experiment is not in the league of Sevick or Belrose, but I
found it interesting that a (Guanella?) bead balun of 50 beads slipped over a
piece of RG58 heated up at 100 watts and eight turns of RG58 (also a Guanella
current balun?) around a T-200-2 did not
heat. Either balun was used at the output of a cheepie MFJ "coax-only"
mobile tuner with the same 130' dipole antenna fed with 300-ohm TV ribbon.

I would like to see a balun for use in tuners with these properties:

*Low loss.
*1-30 MHz bandwidth. (Tuner baluns are used more on 160, 80, 40 than 20 through 10!)
*No damage with higher powers (scaled as needed for QRP or QRO size considerations).
*Able to work with unusual impedances/reactances found at the feeders of a real wire antenna, not a resistive dummyload in a lab.
*Balances RF currents in the feeders, not RF voltages.
*Whatever transformation ratio works best for G5RVs, Zepps, etc- does not have to be 4:1

Well... something to kick around.

73, Jay
WB6AAM

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: TGordish@aol.com
Subject: [6533] Boat Anchors, Internet, QRP, etc....
Message-ID: <960402091341_503727025@mail06>

With all of this talk about the Boat anchors list charging a subscription fee, and the difficulty of finding host systems for our Amateur radio lists, I find myself immediately hurling myself upon a soap box.

QRP-L is a fine list run by dedicated and loyal amateurs, and the subscribers are both interesting, knowledgeable, and have a healthy sense of humor. This is amateur radio at it's best, with one exception. It isn't amateur radio!

That's right, we sit at our wonderful computers and subscribe to internet providers and online services so that we can communicate with one another reliably, and quickly. Amateur radio also has a means of doing the same thing, almost as quickly, and at a much more reasonable price.

How many people on this list realize that packet radio has been using TCPIP (the same protocol used by the internet) for years now? 9600 kps equipment is available off the shelf, some local networks are running a packet version of the WWW, and listservers are possible even in the present obsolete 1200 kps mail forwarding system.

The one problem is speed. But this is not a difficult problem, and the people of this list love problems, otherwise they wouldn't be running QRP!

Speed can be greatly increased over what is even available over our 14.4 kbps and even 28.8kbps modems if we decide to use our frequencies above 440 Mhz. Most equipment on these frequencies is very directional, and runs at 5 watts or less. (Hmmm, isn't that QRP?) Basically, we could build our own

internet!
 The internet is just like CB in the 70's. It is only a matter of time till it degrades into the mess that CB is today. Before that happens, we need to cooperate together, and upgrade our packet networks.
 Sorry about the bandwidth, although I didn't use any to send this.

Tim
KB9LGJ
NorCal   ARRL IDEA

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: wdzeares@ix.netcom.com (W. Dennis Zeares)
Subject: [6570] Calling Freqs: CW vs. RTTY/etc
Message-ID: <199604022243.OAA23354@ix16.ix.netcom.com>

I have noticed that on many afternoons after work there are RTTY or data signals on 14060 - our QRP calling freq and 14050 - the FISTS freq... and I have read that many QRP people are doing RTTY..
so do we need two calling frequencies???? or an alternate freq???
say if RTTY is on 14060, what would be our CW calling freq.??? Any ideas? I monitor 14060 for CW QRP. Just wondering...
thanks, 72/73 dennis k3ets dallas

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: rac@usa.net
Subject: [6581] DigitalDial questions
Message-ID: <199604030223.TAA22331@mail.usa.net>

Hi Gang,

Since WJ4P posted the note about his DigitalDial installation in his OHR 400, he and I have been getting a lot of e-mail questions and requests for further info. Maybe I can answer some of the common questions here and if you want additional info, give me a call or e-mail and I'll be happy to send a outline drawing and schematic diagram of the kits. In a few weeks we'll have full data sheets available.

This gadget should be useful to the QRP group and to vintage equipment fans as well.

The DigitalDial kit is based on the RAC C5 programmable frequency

counter
chip which has the following features:

- Near DC to 50Mhz counting range.
- Six digit LED display drive. (current limiting resistors and three transistors required)
- Selectable 1Khz or 100 hz display resolution.
- Fast update rate eliminating the "rubber band effect".
- Reduction of "last digit jitter".
- Leading zero blanking of Mhz digits.
- Programmable display offset from 0 to 77Mhz.
- Programmable slope, normal and inverted.
- Programmable automatic blanking, reducing power consumption.
- Direct frequency mode, allowing actual frequency display.
- Sixteen programmable memories holding resolution, offset, slope and blanking, when used with optional EEPROM.

Full pc board kits are available.

The BK-171 is a six digit LED display board which is 3.950 wide by 1.375 high. It mounts behind the panel on 3/8 standoffs which are supplied. Two momentary pushbuttons extend through the front panel, DIR and MEM. The buttons select direct frequency readout and memory select. The board connects to the logic board through a 4 inch, 20 conductor ribbon cable, also supplied.

The BK-172 is a double sided plated through logic board containing voltage regulator, gating ic, C5 counter, EEPROM, input buffer, and misc parts, programming pushbutton switches (2), input selector switch and jacks. The board is 3.950 wide by 2.150 deep and a little
under one inch high. It is not supplied with mounting standoffs.

Both boards are solder masked and silk screened.

A punched, painted, and screened case assembly will be available in early May. The case is approximately 1 7/8 H x 4 1/2 W x 3 3/4 D.

This is one of those things you have to drive to appreciate. It is hard to describe but as Randy put it, it is like the display is directly connected to the tuning knob. When you turn it it follows immediately and when you stop, it stops and is quite stable.

The unit requires 9 to 13 volts DC. Current requirements vary with operating frequency and the status of the display. At 5 Mhz the current is approximately 100 mA with the display active, and approximately 40 mA with the display blanked (automatic if selected).

RF noise is always an issue in digital circuits. In a half dozen installations here noise has not been a problem in most cases. It is
important to lightly couple the unit to the VFO circuit and it is important to decouple the supply voltage. As I get feedback from customers I'll have a better feel for this issue.

The board kits are $29.95 each and are in stock. Contact Radio Adventures at R.D.#4 Box 240, Franklin, Pa. 16323. Phone 814-432-3715, e-mail rac@usa.net.

-73- -Lee WA3FIY-

Standard disclaimer would apply except that I do have a direct interest in the product. So, even though I try not to be, be aware that I may be slightly biased :-)

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "N1OOQ Tom R. @ MRO1 02-Apr-1996 1307" <randolph@est.ENET.dec.com>
Subject: [6555] Diplexers?
Message-ID: <9604021818.AA05963@us4rmc.pko.dec.com>

Anyone ever played with diplexers for mixer termination? I've been doing some SPICE simulations. I tried the circuit recommended in "Solid State Design" and got a very ugly double-peaked bandpass from it. This makes some sense, actually, because it's essentially a very strange version of an over-coupled double-tuned filter.

I tried a different design based on a simple two-pole Butterworth bandpass filter, and got a nice smooth single peaked bandpass, and probably most important, a very stable 50 ohm input impedance across 0-30 MHz. I think I'll use this design if I go with a diode DBM!

-Tom R. N1OOQ randolph@est.enet.dec.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Jeff Grudin <grudin@pacific.vdbs.com>
Subject: [6569] DX help
Message-ID: <3161AD21.262@pacific.vdbs.com>

Not directly QRP related but, does anyone know a site that lists how many IRC's are needed for a country to send back a QSL?

Thanks.

72 de Jeff AC6KW
grudin@vdbs.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: blombard@iu.net (Bob Lombardi)
Subject: [6583] FilDes
Message-ID: <199604030241.VAA01745@bb.iu.net>

Just when I don't read this for a day, I get talked about ;-)...

\Date: Sun, 31 Mar 1996 18:25:27 -0500 (EST)
\From: EVI <evi@access.digex.net>
\To: qrp-l@Lehigh.EDU
\Subject: [6450] Filter design & analysis programs
\Message-ID: <Pine.SUN.3.92.960331182359.13781A-100000@access4.digex.net>
\
\
\>From WA8MCQ--
\
\There was some recent mention of a program called FDS124 when someone
\was talking about harmonics on the 40-9er, so it's time to put out a
\little advertisement again.
\
\This program is for designing filters--low pass, high pass, elliptic,
\Chebyshev, Butterworth, and is really handy. It's copyrighted, but
\that's just to protect the author--it's a freebie. The original
\program is saved in the tools subdirectory at lehigh.edu. It's under
\pub/listserv/qrp-l/tools/fds124.zip; the name is Filter Design
\System, freeware written by Bob Lombardi, WB4EHS, who incidentally
\appears to have joined qrp-l in recent months. The software is about
\55K in PKZIPped format, and results in an EXE file of about 100K.
\
\Bob released an upgrade recently, and I had that placed in the
\"tools" directory as well. It's FDS200A.zip (the cases on the
\letters may be wrong), about 163K in ZIP form and 240K of EXE data.
\He added some different filter types, but the main change is making
\it work with the ARRLs new ARD software. If you have the old
\version, it's probably worth the trouble to get the newer one, though
\the old one does most of what I need.

Good summary up to this point. Everyone should get version 2 even if you
never design Bessel or transitional Gaussian filters. I've cleaned up

everything I ever heard was wrong with FDS 1.24 -- or at least everything I ever wrote down.

I should point out to those who are fans of Chris Bowick's book that I originally started FilDes as a way to automate the lookup tables in his book. I then "graduated" to Arthur Williams' "Electronic Filter Design Handbook" and (hold your hand over your heart) Zverev, but always liked the idea of a program that would do the grunt work for you. I still use other handbooks from time to time, but I use FDS for >95% of filters that I design or even consider.

The actual "grandfather" of FilDes was a program featured on the cover of Ham Radio magazine in March of 1986. This one just designed Top-C coupled resonator bandpass filters.

\
\(Bob, if you're interested in another suggestion, how about making
\the ESC key work at all times? It's rather irritating sometimes to
\have to step through all the questions before you get to a point
\where you're allowed to exit the program.)

Let me comment on this down below.

\
\And while you're at it, if you have the W7ZOI Introduction to Radio
\Frequency Design from ARRL, the disk that comes with it has a program
\called GPLA, General Purpose Ladder Analysis, that is really handy
\for evaluating the filters you design with FDS. It has both tabular
\and graphical outputs and I find the two programs are really handy
\and fun together. Unfortunately they do not have compatible file
\formats so you have to type in the data that FDS spits out, but
\that's no big deal. One thing you do have to watch out for, though,
\is the order of components--FDS puts out a list with the "first"
\component at the top, at the source or generator end, while GPLA has
\the "last" component at the top, or the load end. If you have a
\symmetrical filter, with the same input and output impedances, this
\is not a problem. However, if you have one which has unequal
\impedances, such as one matching a 12 ohm amp up to a 50 ohm load,
\you have to watch out for it or you'll get misleading results. Just
\type in the FDS list upside down.

Unfortunately, I haven't bought Wes' book yet. I have the first edition; the white hardcover from Prentice Hall (I think), and it didn't come with a disk. I don't think the ARRL would sell me the disk alone. It sounds like this and the crystal filter program would be good to have, so I should just go ahead and get it.

\.....

\can use the address it was sent from, but you MUST include my name in
\the subject line--Mike C or Mike Ski--so whoever reads it will know
\where it should go.)
\
\73 and Queue Our Pea DE WA8MCQ wa8mcq@bbs.abs.net

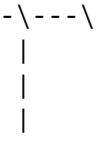
Re: the escape key. FilDes has always had a quirky interface. Even I don't like it. The problem is that I'm an RF engineer, not a software weenie, so the interface wasn't really *designed* in the sense of a piece of hardware. It sort of happened. I'll see if I can figure out how to add the escape back-out function (it's not like I haven't thought of trying before).

What FilDes could use is a more standard interface, and the most common interfaces these days are MS Windoze style interfaces. It may be leading with my chin to say this, but I am planning to make FDS into a Windoze application. Some of you may know that FDS is written in Turbo Pascal, so in order to get the most use of the code I've already written, I've gone off and bought Delphi. Delphi is a wonderful product for windows application development. You can put a fancy interface together without writing more than a couple of lines of code. Unfortunately, I'm at the "hello world" stage with it. Actually, I can get it to say things like that all day; I just can't get numbers _into_ it.

All of which is to say that if you need to design filters, get FDS200.zip (Due to some quirks I'd rather not get into, you may find it as FDS200 or FDS200A.zip; they're the same). I can't imagine having FDSWin available for months or even more. I've recently changed employers after 8 years (don't worry, it was voluntary) and I expect that this will make it harder to get the time to work on FDS. It may also encourage some changes to the features as well. I always have things I want to add and upgrades are always a good time.

73,
Bob

Bob Lombardi WB4EHS in Melbourne, FL
blombard@iu.net or blombard@freenet.fsu.edu
Telescope making, optics, astronomy, piano, bicycling & radio
I've run out of things I can say in 4 lines.



From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [6545] FREQ. DIAL DISPLAY
Message-ID: <9603028284.AA828470736@smtpgw.ccgate.dl.nec.com>

Folks:

There was a posting yesterday from WJ4P or WJ2V
(I think) about a new device which will connect
to virtually any rig and display the VFO frequency.

I think it was from Radio Adventure Corp. (?), but
need further info. price, kit, etc.

Any more data on this critter would be very much
appreciated!

73 de Dave AC5GY
QRP-L #25

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "David E. Shelton" <deshel01@homer.louisville.edu>
Subject: [6587] FS: Argonaut II w/ Step Attenuator
Message-ID: <Pine.OSF.3.91.960402224230.24842B-100000@homer.louisville.edu>

Hello all,

I have stepped into another Argonaut II model 535. This one is the best
of the three which I have had the pleasure of owning. The Model 290 Step
Attenuator is included in the package, this is very handle item for
milliwatting. The rig is in EXCELLENT condition, very mint, and
functionally even better. I just purchased a new Omni VI and my XYL says
one of the rigs has to go to help pay towards the Omni VI (Hi Hi Hi). If
interested this Argo II is going to the first op to contact me with $850
obo.

73/72,

____
David E. Shelton, RN, BSN KE4FPS |
                                      |
University of Louisville, SON |
deshel01@homer.louisville.edu |
103560.1177@compuserve.com |

KE4FPS@WD9AGK.#SIN.IN.USA.NA (packet) |
"Every Patient Deserves A Nurse!" |
                                      |
QRP ARCI #9079 FISTS #2103 QRP-L #142 |
--------------------------------------|

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: jsbraun@vivanet.com
Subject: [6565] FS: QRP+
Message-ID: <9604021707.aa14533@vivanet.vivanet.com>

I have for sale a Index Laboratories QRP Plus Transceiver.
In "mint" condition w/ original Box & manual.
I am asking $400
If interested I can be reached at e-mail: jsbraun@vivanet.com
or at (716)367-9826

Thanks,
Scott
   KB2GWF

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: JCoote@aol.com
Subject: [6589] G5RV or Zepp... antenna stuff
Message-ID: <960402225908_461111384@emout06.mail.aol.com>

I was putting up a temporary center-fed antenna for my city's EOC and noticed some interesting things about antenna and feeder length I thought I would share.

We required an antenna for 1.8-30 Mhz. My antenna has legs of approximately 70 feet and is fed in the center with 300 ohm TV line. Since I did not go with traditional G5RV dimensions which provide "low" impedances on many ham bands, my only ham band low impedance point fell on 3650 kHz. There were other low impedance points at 11.4, 17 and 26 Mhz. I tried two baluns between the 300-ohm line and coax output of the MFJ mobile tuner, a bead balun and winding the coax through a T-200-2 toroid.

If you construct a center-fed antenna and have trouble getting it to tune on a ham band, especially lower bands like 160, 80 or 40... try changing the feeder or flat-top length to get the antenna working on those bands. I find it easier to work on the feeders. The G5RV design has low impedances on many ham bands which makes it easier for many tuners to deal with (less impedance

transformation and reactance to cancel).

Some of the stuff about 44 foot feeders and 137 or 66 foot flat-tops dates back to the 1930's when the finals in radios were high-impedance, harmonically related on 80/40/20 and the antenna and feeder had to be resonant. We don't have to worry about exact flat-top and feed length for those reasons any longer.

Valid reasons for concern about flat-top and feed length these days are:
*Getting an efficient antenna- legs typically 1/4 wavelength or more.
*Making the thing match with a finicky tuner on all bands.
*Special radiation patterns such as broadside, endfire, etc.

I found my antenna and feeder would match on all amateur bands (for you non-WARCers this means nine bands), but the only problem was sharp tuning on 160 meters. I expected sharp tuning because the antenna is electrically short on 160. Sharp tuning meant high Q, high voltage, etc- and a little arcing in my cheapie tuner at 100 watts if not set precisely. Still, feeding the antenna this way on 160 is more effective than the old tale about joining the feeders together and working the antenna against a poor ground.

If you're considering a center-fed antenna, don't worry too much about dimensions. Make the legs at least 1/4 wave or longer at the lowest band (though it will work with shorter legs if you have a better tuner than I). If your tuner only likes medium and low impedances, get rid of it, try a 4:1 current balun, or use the G5RV dimensions when making your antenna. I'd like to see more experimentation with flat-top vs feeder dimensions, for the purpose of having more choices of G5RV-style antennas.

P/S "for a good time" borrow one of those handheld antenna SWR analyzers with the display which plots SWR curves.

73, Jay
WB6AAM

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: WILLIAM STUDLEY <AA1OC@gnn.com>
Subject: [6580] GM40-40 mods
Message-ID: <199604030151.UAA07584@gnn-2.gnn.com>

Just a note to say that I incorporated the 40-9er audio mod into my new GM40-40 that had muffled audio. Boy, that really perked things up! Thanks Guys.
Bill, AA1OC

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Dan Reynolds <bcdlr@midwest.net>
Subject: [6536] HP 410B VTVM Info
Message-ID: <199604021426.IAA24490@cdale1.midwest.net>

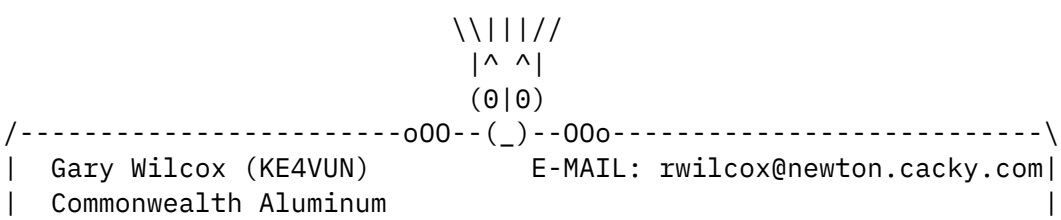
Well, I have another puzzler, (at least for me). I acquired an HP 410B (or was it 140B) VTVM. Thing is built like a tank. Seems to work okay, at least on ohms and DC, but I'm having a problem on AC, oh, all the test leads are "wired" into the unit. On the AC lead there is this big ugly looking probe, sort of looks like a RF probe. Anyway I opened it up and there is a glass tube sort of part and it was broke, all the parts fell out. Where can I get replacements for this probe, or can I just put some sort of "new" end on it?
Can someone email me with info on this unit? I'd like to get some alignment instructions/general operating instructions.....
73's
Peace+
Dan Reynolds, bcdlr@midwest.net, KB9JLO

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: rwilcox@newton.cacky.com
Subject: [6556] HW-8
Message-ID: <9604021840.AA12294@newton.cacky.com>

All

     Went to a Hamfest over the weekend and a Heath HW-8 followed me home. It looks like it is in need of an alignment, about 3 watts out on 80 .5 watt on 40 0 watts on 20 and 15. I have a manual with the procedure, but I was wondering if anyone has any tips. Where can I get an alignment tool? Also is there a source of information on the net for the HW-8.

tns and 73's



| Hwy 1957   FAX: (502) 295-5700 |
| Lewisport Ky.   VOICE: (502) 295-5461 |
\----------------------------ooo-ooo-------------------------------/

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Bill Acito 02-Apr-1996 0900 <acito@asdg.ENET.dec.com>
Subject: [6534] Line Noise
Message-ID: <9604021407.AA08491@us1rmc.bb.dec.com>

re: my line noise problem

Last night I got home from work, and things had quieted down substantially (s3 on 40, with Europe and CW signals booming through). I thought I might have gotten a reprieve. Just for 'giggles' I went out and rapped on the service pole a few times with a maul with no effect.

About 1am, rain rolled into New England. Woke up this morning and clicked on the rig. ugh. S9 again.

I remembered I had a small Sony shortwave radio in the drawer, clicked it on, and walked around the shack a bit. Doesn't seem to be localized.

Jump in the car to head off to work. Click the car radio to AM, and find an empty frequency; I can hear the noise. Pull out of my drive way and start down the street...

noise gets louder...

move a bit more

now it's really loud (sounds like the old 'Russian Woodpecker')...

look up; a transformer on top of the pole. hmmm.

Kept driving on to work; the noise eventually faded out after 100yrds or so. No other transformers on my route gave that kind of noise.

Place a call to Mass Electric; they're going to check it out.

The plot thickens.

b

. . . . . - I own my own words - . . . . . .
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS .:. qrp-ne .:. qrp-l .:. qrp-arci .:. norcal .:. arrl life .:.

Listen for me on weekend and weekday lunchtime passes
(1630 - 1730Z) of AMRAD-OSCAR 27, portable FN42

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: robert fowle <hammarlund@voyager.net>
Subject: [6531] manual's wanted
Message-ID: <199604021229.HAA13661@vixa.voyager.net>

Hello everybody. have the following manuals to trade
towards manuals i want. these are in new condition.

ORIGINAL UNUSED MANUALS FOR TRADE ONLY

QTY	DESCRIPTION
	ORIGINAL HALLICRAFTERS MANUALS
3	HA-4
1	WR-600W
2	S-29
4	S-36
2	S-36A
4	S-39
4	SR-150
5	SR-400
	ORIGINAL HAMMARLUND MANUALS
8	HQ-100
23	HQ-145-A
17	HXL ONE AMP (1.5KW)
20	HX 50
33	HX-500

LOOKING FOR MANUALS BY:

DRAKE, HAMMARLUND, COLLINS, TECHNICAL
MATERIAL, NATIONAL, SWAN, KENWOOD, YAESU, ICOM, HALLICRAFTERS, EF
JOHNSON,
HENRY,
AZDON, MILLEN, RACAL, GONSET, PHASEMASTER,
LAKESHORE, DENTRON, AND OTHERS..

THIS LIST IS TO HELP GIVE YOU AN IDEA OF
THE TYPES OF MANUALS I'M LOOKING FOR.
IF YOU HAVE A MANUAL BY A COMPANY NOT LISTED,
DON'T ASSUME I WON'T BE INTERESTED.
CHECK WITH ME....YOU MAY BE SURPISED. 8-)
==========]-[->
Robert Fowle KC8DBC
The HAMMARLUND Historian
Ph. voice or fax 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail at: hammarlund@vixa.voyager.net
HAMMARLUND LITERETURE WANTED
WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT
==========]-[->

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>
Subject: [6539] miles/watt?
Message-ID: <1996Apr02.104752-0500@[130.113.234.7]>

Pete and Paul have given us a summary of their beacon results.
Thanks, guys for your efforts.
Pete's recent results show clearly that the metric of miles/watt
is a poor indicator of communication efficiency. If you haven't
noticed yet, its WAY biassed in favour of low power and short
distances. Gives us QRP'ers an unfair advantage ;-)

But what's a fair metric? Don't mean to start any flame
warts about antenna size here, but after a radio wave gets
launched, is there a fair way to do it, that doesn't require
a math degree? Something like miles^2/watt? miles/sqrt(watt)?
Glen VE3DNL leinwebe@mcmail.mcmaster.ca

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: tmh@world.std.com

Subject: [6538] My First DX!
Message-ID: <Pine.3.89.9604021050.A25004-0100000@world.std.com>

I worked my first DX during the contest this weekend. Wow! Too much excitement for my delicate system...It was GI0KOW (Northern Ireland). This was my second-ever SSB contact, the first being to Newfoundland (I'm in Boston). I really couldn't believe it when he came right back to me. Didn't have to repeat myself or anything. I was so excited afterwards I had to go work out to calm down. My wife has been most wonderfully appreciative, and has begun calling me "international radio operator" around the house.

A few questions. Is it bad to "dip" into a contest and try for contacts without seriously competing and sending in my results, as I did? (i.e. does the other guy only get credit for working me if I also send something in?). If I write this GI station and send IRCs can I expect to get a QSL, even though it was just a contest contact?

Also, I noticed that Newfoundland and Ireland are roughly the same bearing (50-60 degrees). My antenna is a North-to-South dipole. Do dipoles sometimes have "sweet angles" where they have a little more gain due to local conditions? Or is this something to do with propagation, or, just a coincidence?

Finally, I'm going to be on Martha's Vineyard island (NA 046) off and on this Spring. Someone once mentioned that, while hardly exotic, for IOTA types this could be useful. Could anyone tell me if this is so, and if there are any nets, etc. I should check out while there?

Thanks for the chance to ramble. I'm just so excited because...I'm finally an "international radio operator"...

-- Tim
Tim Huntington
N1PAZ
tmh@world.std.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [6552] New WA8MCQ address
Message-ID: <Pine.BSI.3.91.960402075727.7267A-100000@u1.abs.net>

My home system had a major crash recently, and he took the opportunity to go to a new version of Unix that does not support the old account I was

using. I had to upgrade to a full SLIP/PPP/shell account, resulting in a new address--which is almost identical to the old one.

New address: wa8mcq@abs.net

Old address--do not use: wa8mcq@bbs.abs.net

The only difference is that the "bbs" has been dropped.

If anyone sent me mail on the last 12 days, it's probably lost for good, and I certainly didn't get it (with the exception of a couple while the system ran briefly on Day 4 of the outage). If you sent me mail and it did not bounce, I didn't get it; please send again if it was at least semi-important :-)

Again, please write down this new address if you want to send me mail: wa8mcq@abs.net.

73 and Queue Our Pea DE WA8MCQ   wa8mcq@abs.net

PS--this probably takes K3TKS out of action, too, since he was under the old BBS subsystem--that's k3tks@bbs.abs.net. Anything sent to that will probably bounce. I don't know if he'll upgrade to the new account type or get another provider. If you have k3tks@bbs.abs.net in your books, scratch it out!

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: PB13128@deere.com
Subject: [6532] NOTE 04/02/96 08:05:13
Message-ID: <DACDXX21.PB13128.591405080096093FDACDXX21@TCP30.DX.DEERE.COM>

From: Peter, NN9K

Subject: Great circle distances, grid squares, etc

Check out a program called 'BD'. Free on the ARRL BBS.....does everything you'll need to do.

72

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Wayne Barnhart <wayneb@on-ramp.ior.com>
Subject: [6586] NW8020 again
Message-ID: <Pine.LNX.3.91.960402175458.20283A-100000@on-ramp.ior.com>

er diode was required on the final - anode to ground.
I also noticed that while looking through a batch of
circuits for other types of qrp rigs this appears to
be common practice. So it be and I will comply.

So now I be going to challange the list. Basically I
would like to know why, or what is happening with the circuit.

I understand the place the zener holds. It don't bend,
when stressed it breaks. I was once facinated by the
logic of a crow-bar circuit used to protect circuits
and power supplies. I thought it was a clever bit of work.

How is the reflected wave affecting the circuit and what
is the diode doing to stop it. I dont see the diode acting
as a rectifier to the reflected wave but I do see the diode
preventing the collector from going to ground and feeding
back through, or oscillating. How is the reflected wave
causing the final to oscillate? Is it presenting such a
high inpedance to the final that the output gets trapped
and is unable to do anything other than to turn around and
feed back through the circuit?

It is said that information wants to be free.
So I be asking for free information   :)

Thanks and 73's

Wayne WB7WHI
Spokane, Wa.

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: kb7et@usa.pipeline.com (Jim Sheffield)
Subject: [6579] P/S for QRP rig, KC-1
Message-ID: <199604030027.AAA10424@pipe14.h1.usa.pipeline.com>

Hello all:

Guess I'm the "new kid" on the block. This is
my first posting. Just finished my OHR Explorer
II 30M rig and first QSO was with PJ9CK, and he
came back on first call. After 32 years as ham,
looks like I'm hooked on QRP CW DX.

Anyhow, am looking for recommedations for a
REALLY CLEAN power supply, about 2-3 amp.
Want no detectable hum or hiss in audio to my
headphones. Any suggestions?

Also, anybody installed the KC-1 in an Explorer II?
Wayne Burdick suggested I ask you guys.

Thanks es 73 de Jim, KB7ET
kb7et@usa.pipeline.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "N1OOQ Tom R. @ MRO1 02-Apr-1996 1232" <randolph@est.ENET.dec.com>
Subject: [6551] Plessy mixer?
Message-ID: <9604021741.AA03859@us4rmc.pko.dec.com>

QRPers,
I have a spec sheet for the Plessey SL6440 which lists "intercept" as
+30dBm. So... is that output or input intercept?
I'm playing with front-end tradeoffs for my next project, which will
start out as a high-performance 160m receiver, and this mixer chip might
be useful!
-Tom R.   N1OOQ   randolph@est.enet.dec.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Grover <gtkq4al@qnet.com>
Subject: [6566] QRP AFIELD ANT
Message-ID: <1.5.4b12.16.19960402170916.1edf974c@pop3.qnet.com>

Need Help/Advice: I want to try QRP Afield this year from one of the

campsites on the Blue Ridge Pkwy. Would like to build an ant. using coax feed wrapped around center insulator of a 40M dipole ala 16th Ed. ARRL Ant book, page 4-4. Basically want to eliminate the weight and bulk of a Balun, and to use lightest wt coax feasible. Also,
want to do without a tuner w/OHR Spirit.
       Has anyone used such or have recommendations for components/designs?

 Please save bandwidth & respond direct.   Tnx 72 y Paz ....Grover KQ4AL

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [6576] QRP Afield QTH update
Message-ID: <199604030002.RAA06736@zia.aoc.nrao.edu>

QRP AFIELD APRIL 27, 1996 - Locations of club or individual activity
Sorted by State or Province (SPC), location, calls

CALL   OP(s) SPC Club affil. QRP AFIELD LOCATION/comments

W5VBO   Brian AZ   SQRPions White Tanks nr Litchfield

NQ7X   Floyd   AZ   SQRPions White Tanks nr Litchfield
KB5OB/6 Jim CA   NorCal   Chilao Flats, 5300ft, San Gabriel mts.

WT6P Grover   CA   NorCal   Malakoff Diggins - ghost town, world's

                     largest hydraulic gold mine, abandoned
W0HEP   Rich CO   CQC-1   Cherry Creek Reservoir - site of ancient
                                  Indian village, south of Denver
??   ??   CO   CQC-1   Cherry Creek Reservoir
KI0G Bob CO   CQC-2   Anvil Points - ghost town/pre-WW2 shale

                                  oil town nr Glenwood Spgs
KV0K   Patrick   CO   CQC-2   Anvil Points -
KD0SU   Rick CO   CQC-3   Florrisant Fossil Beds, near Pikes Peak

KG5N/0   Nick CO   CQC-3   Fossil Beds/Pikes Peak (Going for the
W0MCY   Doc CO   CQC-3   Fossil Beds/Pikes Peak (OLDEST site
N0UVR   CO   CQC-3   Fossil Beds/Pikes Peak   (award?
WB5QMP   Randy   ID   NorCal   Old Mica Mine in Idaho
AK0B Stan MO   Kenner's Tavern - historical site, near

                     where they filmed movie "Tom Sawyer"

```
N2CJ Joe  NJ        Country location nr Monroeville
AB5OU     Tim  NM   *CQC-4    Riley, NM - ghost town
NA5N Paul NM   *CQC-4    Riley, NM - ghost town
WA5WHN    Jay  NM   *CQC-4    Riley, NM - ghost town
K5FO Chuck     NM   *NorCal   Riley, NM - ghost town
KI6DS     Doug NM   *NorCal   Riley, NM - ghost town
W5UXH     Chuck     NM   *NorCal   Riley, NM - ghost town  (2 mi. away)
KA8JMW    Ed   NM   ABQ ARC   Riley, NM - ghost town
KB5OME    Jason     NM   ABQ ARC   Riley, NM - ghost town  (working VHF)
N5ZGT     Brian     NM   ABQ ARC   Riley, NM - ghost town
WB5QYT    Tom  NM   ABQ ARC   Riley, NM - ghost town
K9PV Howard    NM   Socorro   "Val Verde" Civil War battlefield
                                    (Feb. 21, 1862) Ft. Craig, nr Socorro
N1IRZ/5   Dave NM   Socorro   Escondida Lake, NM
                                     Famous for absolutely nothing

KU7Y Ron  NV        Site pending  (Area 51?)
VE3VAW    Brien     QUE       Haliburton Highlands (wilderness area)

KQ4AL   Grover  VA              Campsite, Blue Ridge Pkwy.
AA6LU/4   Ralph     VA        Jefferson's Digs, nr Charlottesville

AA1PB     Mill VT        Gile Mt. Fire Lookout Tower, nr Norwich

KV9X/7    Brian     WA   NWQRP     Site pending
W6EMT/7   Roy  WA   NWQRP     Site pending
-------------------------------------------------------------------------
Please send updates to NA5N, pharden@nrao.edu




From owner-qrp-l@Lehigh.EDU  Tue Apr  2 22:08:35 1996
From: jsbraun@vivanet.com
Subject: [6574] QRP+ ( Has been sold)
Message-ID: <9604021849.aa17196@vivanet.vivanet.com>

The QRP+ has been sold.....

Thanks,
  Scott
    KB2GWF



From owner-qrp-l@Lehigh.EDU  Tue Apr  2 22:08:35 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [6573] ScQRPion Meeting
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Message-ID: <013.05022657.SYDV00A@prodigy.com>

Those who got Brian's message today were informed that if we couldn't get a room at DeVry's "we can mosey down to Luby's nearby." I just got back from DeVry's and Luby's and found we must make advance application "For Facility Use" at DeVry's.
So I have arranged to meet at Luby's at 1933 W. Dunlap at 1030AM. Note that the new location of HRO is 1939 W. Dunlap and they share parking space in the Shopping Center at 19th Ave and Dunlap....how convenient. Also, TriTek is only a block away on Dunlap.
I'm putting this on the net so that those who didn't receive Brian's direct e-mail will also get the word and please pass it on to others who might like to participate in a ScQRPion gathering.
Plans will be discussed about the NorCal QRP to the Field outing at the White Tanks State Park on the 27th. We will also show and tell about our 40-9ers...Burt W2GOB, Brian W5VBO and I have ours done and there are 2/3 others in process. See you Sat.
73, Floyd NQ7X

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>
Subject: [6547] Sniffing with a QRP wattmeter
Message-ID: <1996Apr02.115251-0500@[130.113.234.7]>

>That "noise sniffer" sounds like a handy tool to have around the
>shack. Periodically I get intermittent S9 noise. I would be be
>very interested in the schematic!
>73,

You might have one now. I added a 1mW scale to my QRP SWR power meter - its almost the same as the famous OHR QRP meter. The scale is not too useful, since it won't zero. Too much broadcast band stuff picked up.
So, to make it into a sniffer, try making a loop antenna and plugging it into either fwd or rev connector. The loop should be small enough to be portable, yet large enough to be efficient. Just might be what's needed for close-in sniffing.
It may work better if you short out the other connector. For example, connect the loop to FWD, short out REV. (Haven't tried sniffing with a SWR meter, but sounds like a good thing to try).
72 , Glen VE3DNL

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "David E. Shelton" <deshel01@homer.louisville.edu>
Subject: [6540] Ten-Tec reflector - How-to info! (fwd)
Message-ID: <Pine.OSF.3.91.960402105019.17102C-100000@homer.louisville.edu>

Everyone on the QRP-L group must want to get on this reflector, Really!!!

I have received about 30 or so messages and they are still coming strong
concerning the Ten-Tec reflector. Well here is all I know about the
reflector.

In the body of your message put only the word "subscribe" and send it to
tentec-request@akorn.net, make sure that your signature file is not
attached to the message or you may have problems subscribing.

I hope everyone of the Ten-Tec fans in the group will enjoy.

73 es This week let's remember the precious gift Christ has given us!!!

73/72,

____
David E. Shelton, RN, BSN KE4FPS |
                                      |
University of Louisville, SON |
deshel01@homer.louisville.edu |
103560.1177@compuserve.com |
KE4FPS@WD9AGK.#SIN.IN.USA.NA (packet) |
"Every Patient Deserves A Nurse!" |
                                      |
QRP ARCI #9079 FISTS #2103 QRP-L #142 |
_____________________________________|

---------- Forwarded message ----------
From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Dale Wentz KB9JJA <slip50@accessus.net>
Subject: [6588] TenTec 2 Meter Kit
Message-ID: <01BB20E0.310FC1E0@thekeep>

Anyone build the 2 Meter FM Kit? I am interested in the 6 Meter kit and would like
any info on the 2 Meter kit as thay are about the same.

Thanks

I know its not true QRP but it is only 5Watts.

73's de KB9JJA/Dale

dwentz@basenet.net

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: tmh@world.std.com
Subject: [6560] Thanks Everyone
Message-ID: <Pine.3.89.9604021532.C11279-0100000@world.std.com>

Thanks to everyone for all the congratulatory messages re: my first DX.

It's great having folks around who appreciate these accomplishments.

-- Tim
Tim Huntington
N1PAZ
tmh@world.std.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [6585] The 40-9er/49er etc.
Message-ID: <Pine.OSF.3.91.960402211106.24033F-100000@duke.usask.ca>

I took the plunge and decided to order a 40-9er. It is my first kit and
I wanted to start with something simple that I could dissect. Thanks to
everyone who responded with good advice about what to buy etc.

BTW all this talk about altoids has made me wonder if we should not start
a Canadian 49er club--perhaps called "North of the 49-ers" (apologies to S.
Ontario and Victoria B.C. residents).

Seriously, I am looking forward to building the kit and eventually
swapping out the crystal for a VFO etc.

BTW, I am the only ham in my village (a situation I hope to remedy
someday). Does this make me a rare DX ;-)

Thanks for all the wonderful discussion on the group.

Brian Buydens   There was a young poet named Dan,
Department of Computing Services   Whose poetry never would scan.
University of Saskatchewan   When told this was so,
email: Brian.Buydens@usask.ca   He said, "Yes, I know.
VE5RDV

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [6567] Transmitter Design Book ?
Message-ID: <9604022213.AA09555@tulip.ucsb.edu>

Hi, the book-store can get me one book about radio transmitter design that looks interesting (except for the ARRL ones). It is called :

"Radio Transmitter Design", author : Shakhgildyan, Vagan

It costs $ 90 !!! Does anybody know anything about this book and if it is useful for a low power VHF transmitter design ?

Svein Vetti, UCSB CA

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: pelt@vt.edu (Randy Pelt)
Subject: [6564] VPO-300L data???
Message-ID: <199604022110.QAA08297@sable.cc.vt.edu>

Could someone with a data book look up this FET and give me the data for it. It has been out of production for a good while and I need a substitute.

Many Tnx

72/3

****
*Ranson J. Pelt   *
*Internal Audit Manager   ___ _________ *
*Virginia Tech 0328   \ \/ __   __/ *
*Blacksburg, VA 24061   \   / / /   *
*(540) 231-9475 FAX (540) 231-4681   _/ /__/   *
*   *
*QST de nz4i   Semper Fi   *
****

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [6568] Where to get a windsensor ?
Message-ID: <9604022220.AA09674@tulip.ucsb.edu>

Hi, I am looking for a place to get a wind-sensor for velocity and direction measurements. Does anybody have a clue where I can get stuff like that ? It is for a project so I am just interested in the sensor not a whole weather station.

Thanks

Svein Vetti, UCSB

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: burdick@interval.com (Wayne Burdick)
Subject: [6558] WTB: Ten-Tec Argonaut, any species, < $250
Message-ID: <v02130501ad872efecc5f@[199.170.106.28]>

As it turns out, my friend in San Francisco can't afford a QRP+, even used, so now I'm after the next best thing--an Argonaut. It must be in excellent working order on all bands.   Please include a microphone and power supply if the total price will still be <= $250.

I'm trying to help out a retired (fixed-income) ham in San Francisco who really needs a rig. Thanks in advance for parting with your little-used gem!

73,
Wayne
N6KR

415-592-2700

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Bill Acito 02-Apr-1996 1739 <acito@asdg.ENET.dec.com>
Subject: [6572] ZAP!
Message-ID: <9604022243.AA13912@us1rmc.bb.dec.com>

On another subject (while I'm waiting for the electric company to get back to me...)

My Butternut had a loading coil across the feed input to the antenna i.e. there was a DC path to ground.

My GAP doesn't seem to. Did I read somewhere recently that it is ok to put a large value (>500k) resistor across a feed point as a discharge path without 'warping' the feed impedence. I guess 50 ohms in parallel with 500K is still pretty close to 50, eh?

Any gotcha's to worry about, say up to 200W? (no inductive resisters, power ratings, etc.)

Spring thunderstorm season is approaching... (not to imply that a 1/2 watt resistor will cure lightning issues)

b

. . . . . - I own my own words - . . . . . .
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS .:. qrp-ne .:. qrp-l .:. qrp-arci .:. norcal .:. arrl life .:.

Listen for me on all weekend and weekday lunchtime (1630 - 1730Z) passes of AMRAD-OSCAR 27, portable FN42

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6563] RE: 49er
Message-ID: <960402154851.23ebba68@carib.vf.mmc.com>

Timothy, you wrote:

>Question: Where is jumper #4? Perhaps I am blind but Doug talks
>about installing the four jumpers on the board and I only see three.
>I did not see J3 in between C19 and C15 right away but then I got it.
>Sorry---I do not see J4.

With R1 in the upper left hand corner, look just to its right and downward. C2 is immediately below R1 and J4 is just to the right of C2.

GL and 72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2CX@voicenet.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Frank Forsyth <aa8vn@sun.tir.com>
Subject: [6529] Re: Altoid question
Message-ID: <9604020412.AA01147@sun>

>>
>Nah. An Altoid is someone who sings lower than a soprano but not as low as
>an alto.
>
>>>>==>PStJTT
>
>
I thought it was an ALTO with a cold!

73 AA8VN
>
>
>
 Frank Forsyth AA8VN Port Huron, Mi.
     MQRP #1200 NorCal#1204
     ARCI #8848 G-QRP (can't remember)

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [6575] Re: Altoids
Message-ID: <199604022347.QAA06267@zia.aoc.nrao.edu>

>Dave KE6ZBZ writes:
>...but I have NEVER seen Altoids there (in Engliand)
>Are we "marketing victims"? (rhetorical)

>Dave KE6ZBZ QRP-L #92

Yeah, I've often wondered if the Koreans have actually heard of "Ginsing tea" or is that pure American marketting also? Do they actually drink "Dos Equis" beer in Mexico, or just send that crap up to us? The otherday in the grocery store I saw rabbit meat labeled "Product of New Zealand." I thought Australia was up to their eyes in rabbits --why not get rabbit meat from there? I think it is ALL marketting.

Now I'm wondering, is the NorCal 40 REALLY from California? Or the St. Louis Tuner REALLY from St. Louis? Gosh, maybe we've been duped also!
Paul NA5N
REALLY from New Mexico

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [6582] Re: Altoids
Message-ID: <2.2.32.19960402012502.007561a4@public.compusult.nf.ca>

Paul,

Is QRP really LOW Power... No - it can't be all marketing hype. My Alpha has a low power mode - 1500 watts PEP instead of 3000 watts PEP - I'm satisfied that no marketing ploy was used on me..

73/72(1500 w PEP) Bob VO1DRB/WA6ERB REALLY not from Newfoundland originally.

At 16:47 4/2/96 -0700, you wrote:

>Now I'm wondering, is the NorCal 40 REALLY from California? Or
>the St. Louis Tuner REALLY from St. Louis? Gosh, maybe we've
>been duped also!
>Paul NA5N
>REALLY from New Mexico
>
>

 _____
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com |
| bgobrick@nlnet.nf.ca |
| Compuserve: 70466.1405@compuserve.com |
|_____|

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "Jerry L. Bartachek" <jbartac@max.state.ia.us>
Subject: [6559] RE: Brilliant QRP+ Marketing Ploy
Message-ID: <3161A0DF.3684@max.state.ia.us>

Scott NF3I's point is well taken. I bought my QRP+ in late October 1995.
 Now if I want the very BEST QRP+, I would need to shell out another
$250, making my total investment $850!!

I wish I could have known they were prepared to upgrade the rig, as I
would have waited and spent only $700 for the improved model and not
$850 for the original & upgrade. Frankly, I was lucky to have the
blessings of my XYL to buy the original QRP+. But there's no way that I
can financially justify an upgrade, and I will NOT sell my little baby.
So their marketing ploy failed to extract more $$ from me.

Even with the receiver overload clicking in my ears during contests, I
have had a lot of fun working both coasts of the U.S. and everything in
between during 160 Meter contests this winter: I just flip the switch
for the 20 dB attenuator, and work 'em as fast as I can.

72,
Jerry KD0CA
QRP ARCI #5166
jbartac@max.state.ia.us

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: JCoote@aol.com
Subject: [6584] Re: Calling Freqs: CW vs. RTTY/etc
Message-ID: <960402221020_183641189@emout10.mail.aol.com>

In a message dated 96-04-02 17:55:49 EST, wdzeares@ix.netcom.com (W. Dennis
Zeares) writes:

>I have noticed that on many afternoons after work there are RTTY or
>data signals on 14060 - our QRP calling freq and 14050 - the FISTS
>freq... and I have read that many QRP people are doing RTTY..
>so do we need two calling frequencies???? or an alternate freq???
>say if RTTY is on 14060, what would be our CW calling freq.??? Any
>ideas? I monitor 14060 for CW QRP. Just wondering...
>thanks, 72/73 dennis k3ets dallas

Some RTTY/Digital ops may not realize the difference between their dial freq

and what their AFSK tones are really doing on the band, mark, space and all that. We've also had this conflict with RTTY/AMTOR walking all over "fixed" frequencies of packet gateways which serve many people, not a QSO of two. "But my dial frequency says..."

Maybe those of us QRP'ers with RTTY should risk the temporary ire of our fellow QRP'ers and contact the offending RTTY'er in their mode, and *politely* educate them 14060 (mark-space offsets explained) is set aside for QRP, and would they please QSY up?

To avoid 14060 becoming an official RTTY frequency, we QRP'ers have to educate ARRL, RTTYers and everyone on the matter. How can anyone know if they aren't told?

73, Jay
WB6AAM

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: "P.F. Coppin" <coppin@freenet.hamilton.on.ca>
Subject: [6578] Re: DX help
Message-ID: <Pine.SOL.3.91.960402191145.1219A-100000@james.freenet.hamilton.on.ca>

On Tue, 2 Apr 1996, Jeff Grudin wrote:

> Not directly QRP related but, does anyone know a site that lists how many
> IRC's are needed for a country to send back a QSL?
>
> Thanks.
>
> 72 de Jeff AC6KW
> grudin@vdbs.com
>

Hi Jeff: An IRC is " supposed" to be good for one first class airmail letter under 10(?) grams from anywhere... But, we wish! Most places can work with two IRCs, sometimes only one. There was a good review of the process in CQ magazine two or three issues back, which went over the whole scene. Dont have the issue at my fingertips but can dig it out if you need. The price of IRCs are starting to climb - look for a comeback of the popularity of the bureaus. Some DXers (French come to mind prefer the buro because of postal costs. IRCs up here in Canada Eh have gone to 3.50Cdn. I may be forced to renew my membership in RAC (our version of ARRL) Good DX!

73 de Paul

```
  -:-:-       PAUL F. COPPIN         coppin@freenet.hamilton.on.ca
-:   :-       -:-:-     -:-:-          VE3PFT/VA3RSI  CFH5391/MM
-:           -:   :-   -:   :-    ::     VE3PFT@VE3DTV.#scon.on.ca.na
 -:-:-:-:-: -:-:-:-  :-:-:-:- :-:-  -:-:-  VE3PFT@VE3PFT-2.#scon.on.ca.na
              -:        -:                   ve3pft@port.ve3mch.ampr.org
              -:        -:                     ve3pft@ve3pft.ampr.org
                                                 Qrp-l 496
```


From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: PDouglas12@aol.com
Subject: [6548] Re: FREQ. DIAL DISPLAY
Message-ID: <960402120204_503846748@emout08.mail.aol.com>

Wasn't me. I'm a KC1 kinda' guy.

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Pat Taber <ptaber@logicraft.com>
Subject: [6537] Re: Line Noise
Message-ID: <199604021545.KAA97280@nss2.CC.Lehigh.EDU>

> I have been told to:
>
> -use an AM radio tuned to a blank area to 'fox hunt'
> -bang on the local poles with a hand maul, look for a change
>
> Anything else (diagnostic tools, or possible sources)?
>
Bill -- do not bang on the poles. If you isolate the noise to a particular pole with an AM radio or other noise detector call the power company and let them take it from there. If you hit the pole (a) you can be arrested and have to wear one of those "house arrest" bracelets (b) you can be killed by a falling transformer or wire (c) you can kill someone else.

A long time ago in Ham Radio magazine some one of the columnists showed a little noise DF box that he made with a meter and a diode that was good for "close in work" after using the AM radio to sniff into the general area. I forget how it was wired, but I'll bet someone on the list answers that minutes after reading this post.

>>>==>PStJTT

==
Patrick Taber   Email: ptaber@logicraft.com
Principal Software Engineer   Phone: (603) 880-0300
Logicraft Information Services   Fax: (603) 880-7229
22 Cotton Road
Nashua N.H. 03063   Also known as: KC1TD

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Tom_Jennings <jennings@eng16.rochny.uspra.abb.com>
Subject: [6543] Re: Line Noise
Message-ID: <jennings-9603021626.AA000329267@eng16>

In message M, Pat Taber says:
> Date: Tue, 2 Apr 1996 10:45:11 -0500
> From: Pat Taber <ptaber@logicraft.com>
> Subject: Re: Line Noise
> X-Sender: ptaber@freebird
>
       < deleted stuff >
>
> A long time ago in Ham Radio magazine some one of the columnists showed a
> little noise DF box that he made with a meter and a diode that was good for
> "close in work" after using the AM radio to sniff into the general area. I
> forget how it was wired, but I'll bet someone on the list answers that
> minutes after reading this post.
>
> >>>==>PStJTT
>
> ==
> Patrick Taber   Email: ptaber@logicraft.com
> Principal Software Engineer   Phone: (603) 880-0300
> Logicraft Information Services   Fax: (603) 880-7229
> 22 Cotton Road
> Nashua N.H. 03063   Also known as: KC1TD
>
>
>
That "noise sniffer" sounds like a handy tool to have around the
shack. Periodically I get intermittent S9 noise. I would be be
very interested in the schematic!

73,
Tom, kv2x

Thomas J. Jennings | Tel: (716) 273 7071
Senior Engineer | Fax: (716) 273 7262
ABB Industrial Systems Inc. |
Post Office Box 22685 |
Rochester, New York 14692-2685 |

Internet: jennings@jennings.rochny.uspra.abb.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: rossi@vfl.paramax.com (Pete Rossi)
Subject: [6541] Re: miles/watt ?
Message-ID: <9604021613.AA03866@gvlf6-a>

->Pete and Paul have given us a summary of their beacon results.
->Thanks, guys for your efforts.
->Pete's recent results show clearly that the metric of miles/watt
->is a poor indicator of communication efficiency. If you haven't
->noticed yet, its WAY biassed in favour of low power and short
->distances. Gives us QRP'ers an unfair advantage ;-)
->
-> But what's a fair metric? Don't mean to start any flame
->warts about antenna size here, but after a radio wave gets
->launched, is there a fair way to do it, that doesn't require
->a math degree? Something like miles^2/watt? miles/sqrt(watt)?
->Glen VE3DNL leinwebe@mcmail.mcmaster.ca

A key missing ingredient is the frequency. You really can't compare
miles/watt on 80 meters.. vs. let's say 10 meters.

With the noise level on 80, hitting the west coast [from the east coast]
with 200 mW is probably really pushing the limit. Yet.. that same 200 mW
might be booming in 59+ in Australia on 10 meters with proper band conditions..

To tell you the truth, I never quite saw the merit in the miles/watt either.
I just went along with it since that seemed to be some sort of standard
of measure everyone was using.. There are far too many other factors to
consider.

It's just like DXing. The raw distance to the DX station does not really

mean a whole lot. It's how common or how active the country is that makes it rare and makes working it more of a challenge/accomplishment.

If someone can think of a better system then miles/watt then let us know..

Pete Rossi - WA3NNA
rossi@vfl.paramax.com

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Nick Franco <kf2ph@bnl.gov>
Subject: [6535] Re: Mobile QRP DX? Sure: JA and UA0 w/2 watts!
Message-ID: <31613A0A.4485@bnl.gov>

Just read Wayne's post on Mobile CW QRP. This is something I enjoy. I rigged my HW-8, an MFJ keyer and a home brew single lever paddle into my car, and ran the full 2 watts on 40 meters to a Hamstick. GREAT ANTENNA. I was thinking about buying one for 30 meters and running my SW-30 from the car. I've since sold the HW-8, but a .gif of my setup can be viewed from the Amateur Radio link off my Home Page below. I used double sided foam tape to stick the HB paddle onto the Mouse pad wrist rest board. It stayed put and was comfortable to operate. I worked many many stations in OH, MI, WI, TN, FL, GA, VA, NH, CT, Canada, etc, and even a couple of weak Q's to TX, as well as Finland and Italy from the car, usually from the Long Island Expressway. I even had a couple of ragchews with Ernie's booming QRP station.

If you haven't tried it, give it a shot! It's lots of fun and improved your code copy - you have to copy in your head unless you're REALLL good at driving and writing at the same time.

72,
Nick

--
Nicholas J. Franco   <><   BROOKHAVEN NATIONAL LABORATORY
Sr. Systems Specialist   RHIC Project - Building 1005 - Room 201
Tel: (516) 344-5467 Fax: (516) 344-3674   UPTON, N.Y. 11973-5000
Email: kf2ph@bnl.gov   http://www.rhichome.bnl.gov/People/franco

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
Subject: [6542] Re: My First DX!
Message-ID: <9604021613.AA08891@wizard.ucs.sfu.ca>

Hi Tim,

Congratulations, well done. Took me a while to get my first "G", and
a great thrill when I finally did.
>
> I worked my first DX during the contest this weekend. Wow! Too much
> excitement for my delicate system...It was GI0KOW (Northern Ireland). This
> was my second-ever SSB contact, the first being to Newfoundland (I'm in
> Boston). I really couldn't believe it when he came right back to me.
> Didn't have to repeat myself or anything. I was so excited afterwards I
> had to go work out to calm down. My wife has been most wonderfully
> appreciative, and has begun calling me "international radio operator"
> around the house.

Boy, I wish I had Newfoundland... (east/west paths can be tough).
>
> A few questions. Is it bad to "dip" into a contest and try for contacts
> without seriously competing and sending in my results, as I did? (i.e.
> does the other guy only get credit for working me if I also send something
> in?).

They will get credit, but sending in a "check log" is not a bad idea. For
several of the contests, including the last wpx, you can send in your
log via email. If you need the address, let me know. Also, contesters will
take any q's they can get. All contacts are appreciated.

> If I write this GI station and send IRCs can I expect to get a QSL,
> even though it was just a contest contact?

Your chances of getting a card are as good as any other contact. Let
him know that he was your first dx/g contact. I always get a thrill
being a first for someone, so share the significance of the event.
>
> Also, I noticed that Newfoundland and Ireland are roughly the same
> bearing (50-60 degrees). My antenna is a North-to-South dipole. Do
> dipoles sometimes have "sweet angles" where they have a little more
> gain due to local conditions? Or is this something to do with
> propagation, or, just a coincidence?

Depending on the length and height of the antenna, it will display
"lobes" favoring certain directions. Check out one of the antenna
books for more information.
>
> Finally, I'm going to be on Martha's Vineyard island (NA 046) off and on
> this Spring. Someone once mentioned that, while hardly exotic, for IOTA
> types this could be useful. Could anyone tell me if this is so, and if
> there are any nets, etc. I should check out while there?

You will have to check with the IOTA types on this one.
>
> Thanks for the chance to ramble. I'm just so excited because...I'm
> finally an "international radio operator"...

Congratulations again. It is great fun, but I warn you.....
It can be addictive ;-).

cheers, Paul
VE7CQK
email: paul1@wizard.ucs.sfu.ca
>
> -- Tim
> Tim Huntington
> N1PAZ
> tmh@world.std.com
>
>

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: kf8at@detroit.ampr.org
Subject: [6530] Re: SIGNOFF BOATANCHORS (fwd)
Message-ID: <2293@detroit.ampr.org>

On 1 April 1996, Rick Robinson wrote:

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: Richard E Robinson <rerobins@uncc.edu>
Subject: Re: SIGNOFF BOATANCHORS (fwd)

On Mon, 1 Apr 1996 kf8at@detroit.ampr.org wrote:

> What's this got to do with QRP?
> (must be an April Fool's joke, of something)

The Boatanchors list, old military and ham tube type equipment
discussions, became a paid subscription list as of March 15. If you
post to the list and are not a paid subscriber, you get the message Stan
posted.

Many folks are concerned that this will spread and will contribute to the downfall of western civilization, and particularly ham radio as we know it. It is not an April Fools joke.

72,

Rick Robinson kf4ar
rerobins@uncc.edu

(included mssg ends)

Rick,

Seems as though the joke's on you! Many of us on the BA reflector don't expect Jack and Phil to pick up the tab for everyone else. It's still a free country and freedom of choice is what makes it so great. But the free doesn't mean someone else has to foot the bill!

72, 73,
Floyd, KF8AT
QRP-L #392

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: torell@sicom.com (Kent Torell)
Subject: [6554] Re: Sniffing with a QRP wattmeter
Message-ID: <v02130502ad8712c9be3d@[192.91.202.41]>

>.... my QRP SWR power
>meter .....
> So, to make it into a sniffer, try making a loop antenna
>and plugging it into either fwd or rev connector.
> It may work better if you short out the other connector.
^^^^^^^^^
Good idea, but the swr meter uses directional couplers to work; they need to be terminated in there design working impedance to function correctly (although they will work after a fashion if not). I would suggest a 50 ohm load on the other port.

Never really thought about using this for a sniffer :-)
72, ab7oa

Kent Torell torell@sicom.com 602-483-2867 x40

SICOM   7585 E. Redfield, #202   Scottsdale, AZ   85260

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: David E. Shelton <deshel01@homer.louisville.edu>
Subject: Re: Ten-Tec reflector - where?

send "subscribe" to tentec-request@akorn.net

____
David E. Shelton, RN, BSN KE4FPS |
                                      |
University of Louisville, SON |
deshel01@homer.louisville.edu |
103560.1177@compuserve.com |
KE4FPS@WD9AGK.#SIN.IN.USA.NA (packet) |
"Every Patient Deserves A Nurse!" |
                                      |
QRP ARCI #9079 FISTS #2103 QRP-L #142 |
______________________________________|

On Tue, 2 Apr 1996, John D. Hysell wrote:

> Hi Dave;
>   Where does one subscribe to the Ten-Tec reflector (now that YOU found out...)
> thanks and 73
> John
> KF2XC
>

From owner-qrp-l@Lehigh.EDU Tue Apr 2 22:08:35 1996
From: QLF%mimi@magic.itg.ti.com
Subject: [6546] re: THOUSAND MILES PER WATT
Message-ID: <9604021658.AA09883@itg.ti.com>

From: Brad Bradfield   QLF

Subj: re: THOUSAND MILES PER WATT

Ya' gotta remember that Thousand Miles per Watt is strictly a fun bragging rights kind of thing and not something that is real objective. It's been around at least since Ade published the Milliwatt, probably longer.

If you wanted to make it "somewhat" more practicle, put a minimum distance requirement on it, like 100 or 200 miles. Remember that 0.568 uW at three feet is still one thousand miles per watt.

73's

Brad, WB0CGH
****
Brad Bradfield, PE Electrical Design Engineer
(H) 817-321-2960 Texas Instruments, Inc.
(W) 214-462-6230

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ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M)
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****